



IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

# 6

APPLICANT: Zhou Hong et al.  
SERIAL NO.: 10/052,613  
FILING DATE: January 17, 2002  
TITLE: Fixed-Rate Block-Based Image Compression with Inferred Pixel Values  
EXAMINER: Unknown  
ART UNIT NO.: 2621  
ATTY.DKT.NO.: PA1732US

RECEIVED

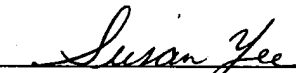
SEP 17 2002

OFFICE OF PETITIONS

**Certificate of Mailing**

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Box DAC, Commissioner for Patents, Washington, D.C. 20231, on the date printed below:

Date: 9/10/02

  
Susan Yee

BOX DAC  
COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

**REQUEST FOR RECONSIDERATION OF PETITION UNDER 37 C.F.R. §1.47(a)**

In response to the Decision Refusing Status under 37 C.F.R. 1.47(a) (a copy of which is enclosed for your reference), Applicant submits the following to the Examining Attorney:

*Proof of Unavailable Inventor.* The Examining Attorney has argued that we have failed to show that we have made diligent efforts to locate the inventor Zhou Hong. On behalf of the Applicants, I mailed Mr. Hong the Declaration and Power of Attorney with a copy of this application on March 19, 2002 at his last known address, 311 Checkers Drive, #208, San Jose, CA 95133 on file with his last known employer, S3 Incorporated (whom we contacted on March 7, 2002 to obtain the address). This letter was returned to me, rendered undeliverable by the U.S. Post Office (attached hereto as Exhibit A).

In addition, my colleague Jenny Splitter attempted to contact Mr. Hong via telephone using the last known phone number for him ((408) 926-5627, also provided by his former employer), but the person who answered the phone indicated that this was not, nor had it ever been, the correct number for Mr. Hong.

On behalf of the applicants, we have searched the Internet, phoned the Information Operator for San Jose, California, and searched Lexis Nexis for Mr. Hong. Unfortunately, the listings we discovered did not correspond to the individual Zhou Hong for whom we were looking. Although there are numerous listings for "Zhou Hong," none of the listings correspond to the address or phone number provided to us by the inventor's former employer. We enclose a Lexis search (attached hereto as Exhibit B) which indicates 19 results for individuals by the name of "Zhou Hong" in the San Jose, California area alone. None of these searches indicate any information that corresponds to the last known address for Mr. Zhou Hong: 311 Checkers Drive, #208, San

Jose, CA 95133. Several phone calls to many of the persons indicated by the Lexis search did not reveal the inventor Mr. Zhou Hong.


We also enclose additional evidence of our attempts to correspond with Mr. Zhou Hong. As you can see, our correspondence of July 3, 2002 was also returned (attached hereto as Exhibit C).

*Declaration under 37 C.F.R. §1.63 and 1.64.* We enclose herewith a Declaration under 37 C.F.R. §1.63 and 1.64 (attached hereto as Exhibit D). As required by the Examining Attorney, the Declaration now includes (1) the mailing address of Zhou Hong, (2) the residence and mailing address of Konstantine I. Iourcha, and (3) the mailing address of Krishna S. Nayak.

*Statement of Non-Signing Inventor.* As required by the Examining Attorney, the last known address for Konstantine Iourcha is 310 Elan Village Lane, #204, San Jose, CA 95134.

The Applicants believe that the Petition under 37 C.F.R. §1.47 (a) and the Declaration under 37 C.F.R. §1.63 and 1.64 have met all of the applicable requirements and should be accepted by the Examining Attorney.

Dated: 9/10/02

  
\_\_\_\_\_  
Susan Yee, Reg. No. 41,388  
Carr & Ferrell LLP  
2225 East Bayshore Road, Suite 200  
Palo Alto, CA 94303  
TEL: (650) 812-3400  
FAX: (650) 812-3444



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents  
United States Patent and Trademark Office  
Washington, D.C. 20231  
www.uspto.gov



CARR & FERRELL, LLP  
2225 EAST BAYSHORE ROAD  
SUITE 200  
PALO ALTO, CA 94303

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JUL 10 2002

OFFICE OF PETITIONS

In re Application of  
Zhou Hong; Konstantine I. Iourcha and  
Krishna S. Nayak  
Application No. 10/052,613  
Filed: January 17, 2002  
For: FIXED-RATE BLOCK-BASED IMAGE  
COMPRESSION WITH INFERRED  
PIXEL VALUES

:  
:  
: DECISION REFUSING STATUS  
: UNDER 37 CFR 1.47(a)  
:

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SEP 17 2002

OFFICE OF PETITIONS

This is in response to the "Petition Under 37 CFR 1.47(a)," filed April 22, 2002 (Certificate of Mailing date: April 10, 2002).

The petition is dismissed.

Rule 47 applicant is given TWO MONTHS from the mailing date of this decision to reply, correcting the below-noted deficiencies. Any reply should be entitled "Request for Reconsideration of Petition Under 37 CFR 1.47(a)," and should only address the deficiencies noted below, except that the reply may include an oath or declaration executed by the non-signing inventor. **FAILURE TO RESPOND WILL RESULT IN ABANDONMENT OF THE APPLICATION.** Any extensions of time will be governed by 37 CFR 1.136(a).

The above-identified application was filed on January 17, 2002 without an executed oath or declaration and naming Zhou Hong, Konstantine I. Iourcha and Krishna S. Nayak as joint inventors.

Accordingly, on February 11, 2002, a "Notice to File Missing Parts of Application" was mailed, requiring an executed oath or declaration, and a surcharge for late filing.

Application No. 10/052,613

In response, on April 22, 2002, the instant petition, declaration and Declaration of Facts made by attorney of Record Susan Yee that states non-signing inventor Zhou Hong cannot be located and non-signing inventor Konstantine I. Iourcha refuses to sign the declaration, were filed.

A grantable petition under 37 CFR 1.47(a) requires:

- (1) proof that the non-signing inventor cannot be reached or refuses to sign the oath or declaration after having been presented with the application papers (specification, claims and drawings);
- (2) an acceptable oath or declaration in compliance with 35 U.S.C. §§ 115 and 116;
- (3) the petition fee; and
- (4) a statement of the last known address of the non-signing inventor.

Applicant lacks items (1), (2), and (4) set forth above.

As to item (1), Rule 47 applicant has failed to show that diligent efforts have been made to locate non-signing inventor Zhou Hong. Applicant has simply stated that the declaration and a copy of the application were sent to the non-signing inventor's last known address and that one telephone call was made to the non-signing inventor's last known telephone number. As such, diligent efforts have not been made to locate the non-signing inventor.

As to item (2), an oath or declaration for the patent application in compliance with 37 CFR 1.63 and 1.64 has not been presented. The declaration does not set forth:

- the mailing address or citizenship of Zhou Hong;
- the residence and mailing address of Konstantine I. Iourcha; and
- the mailing address of Krishna S. Nayak.

An oath or declaration in compliance with 37 CFR 1.63 and 1.64 is REQUIRED. See MPEP 409.03(a).

As to item (4), a statement of the non-signing inventor Konstantine I. Iourcha's last known address is missing and is required.

Deposit account No. 06-0600 has been charged the \$130.00 fee for the petition under 37 CFR 1.47.

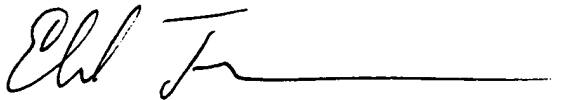
Further correspondence with respect to this matter should be addressed as follows:

By mail: Assistant Commissioner for Patents  
Box DAC  
Washington, DC 20231

By FAX: (703) 308-6916  
Attn: Office of Petitions

By hand: Office of Petitions  
2201 South Clark Place  
Crystal Plaza 4, Suite 3C23  
Arlington, VA

Telephone inquiries related to this decision should be directed to the undersigned at (703) 306-9200.



Edward J. Tannouse  
Senior Petitions Attorney  
Office of Petitions  
Office of the Deputy Commissioner  
for Patent Examination Policy

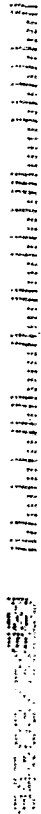
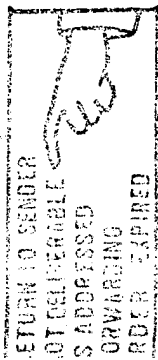
*EXHIBIT A*

CARR & FERRELL LLP  
ATTORNEYS AT LAW  
2225 EAST BAYSHORE ROAD, SUITE 200  
PALO ALTO, CA 94303



RECEIVED JUL 16 2002

Zhou Hong  
311 Checkers Drive, #208  
San Jose, CA 95133





*EXHIBIT B*

Source: [Public Records > People, Business & Asset Locators > \\$ EZFIND Combined Person Locator Nationwide](#) ⓘ

Terms: ["zhou hong"](#) (Edit Search)

Focus: ["zhou hong" and "san jose"](#) (Exit FOCUS™)

✓ Select for FOCUS™ or Delivery

- ☐ 1. [ZHOU, HONG \(MALE\), 2778 PARASOL CT, SAN JOSE, CA 95125-6339, 1970, PERSON LOCATOR - P-SEEK](#)
- ☐ 2. [ZHOU, HONG \(MALE\), 499 PAGE ST APT B, SAN JOSE, CA 95126-3382, 1957, PERSON LOCATOR - P-SEEK](#)
- ☐ 3. [ZHOU, HONG \(MALE\), 1374 CASTLEMONT AVE APT 60, SAN JOSE, CA 95128-4415, 1968, PERSON LOCATOR - P-SEEK](#)
- ☐ 4. [ZHOU, HONG \(MALE\), 1656 BROOKVALE DR, SAN JOSE, CA 95129-4628, 1954, PERSON LOCATOR - P-SEEK](#)
- ☐ 5. [ZHOU, HONG \(MALE\), 1721 CASTLEGATE DR, SAN JOSE, CA 95132-1712, 1970, PERSON LOCATOR - P-SEEK](#)
- ☐ 6. [ZHOU, HONG SR, 499 PAGE ST APT B, SAN JOSE, CA 95126, 9/1957, PERSON LOCATOR - P-SRCH](#)
- ☐ 7. [ZHOU, HONG, 1721 CASTLEGATE DR, SAN JOSE, CA 95132, 11/1966, PERSON LOCATOR - P-SRCH](#)
- ☐ 8. [ZHOU, HONG, 1268 QUINCY DR APT 3, SAN JOSE, CA 95132, PERSON LOCATOR - P-SRCH](#)
- ☐ 9. [ZHOU, HONG, 1656 BROOKVALE DR, SAN JOSE, CA 95129, 1953, PERSON LOCATOR - P-SRCH](#)
- ☐ 10. [ZHOU, HONG, 2778 PARASOL CT, SAN JOSE, CA 95125, 10/1970, PERSON LOCATOR - P-SRCH](#)

Source: [Public Records > People, Business & Asset Locators > \\$ EZFIND Combined Person Locator Nationwide](#) ⓘ

Terms: ["zhou hong"](#) (Edit Search)

Focus: ["zhou hong" and "san jose"](#) (Exit FOCUS™)

View: Cite

Date/Time: Monday, September 9, 2002 - 6:55 PM EDT

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Source: [Public Records > People, Business & Asset Locators > \\$ EZFIND Combined Person Locator Nationwide](#) ⓘ

Terms: ["zhou hong"](#) (Edit Search)

Focus: ["zhou hong" and "san jose"](#) (Exit FOCUS™)

✓ Select for FOCUS™ or Delivery

- ☐ 11. [ZHOU, HONG, 13747 CASTLEMONT AV 60, SAN JOSE, CA 95128, 7/1968, PERSON LOCATOR - P-SRCH](#)
- ☐ 12. [ZHOU, HONG, 499 PAGE ST APT B, SAN JOSE, CA 95126-3382, 1957, PERSON LOCATOR - P-FIND](#)
- ☐ 13. [ZHOU, HONG, 499 PAGE STREET APT. B, SAN JOSE, CA 95126, P-TRAK](#)
- ☐ 14. [ZHOU, HONG, 1374 CASTLEMONT AVENUE APT. 60, SAN JOSE, CA 95128, P-TRAK](#)
- ☐ 15. [ZHOU, HONG H, 2778 PARASOL COURT, SAN JOSE, CA 95125, P-TRAK](#)
- ☐ 16. [ZHOU, HONG, 6260 STONERIDGE MALL ROAD APT. A219, PLEASANTON, CA 94588, P-TRAK](#)
- ☐ 17. [ZHOU, HONG, 499 PAGE ST, SAN JOSE, CA 95126-3382, PERSON LOCATOR - USPAGE](#)
- ☐ 18. [ZHOU, HONG, 1374 CASTLEMONT AVE, SAN JOSE, CA 95128-4415, PERSON LOCATOR - USPAGE](#)
- ☐ 19. [ZHOU, HONG, 499 PAGE ST APT B, SAN JOSE, CA 95126-3382, PERSON LOCATOR - USFIND](#)

Source: [Public Records > People, Business & Asset Locators > \\$ EZFIND Combined Person Locator Nationwide](#) ⓘ

Terms: ["zhou hong"](#) (Edit Search)

Focus: ["zhou hong" and "san jose"](#) (Exit FOCUS™)

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Date/Time: Monday, September 9, 2002 - 6:55 PM EDT

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*EXHIBIT C*

CARR & FERRELL LLP  
ATTORNEYS AT LAW

July 3, 2002

WRITER'S DIRECT DIAL NUMBER

(650) 812-3423

Zhou Hong  
311 Checkers Drive, #208  
San Jose, CA 95133

Re: U.S. Patent Application No. 10/052,613  
Filed: January 17, 2002  
Title: Fixed-Rate Block Based Image Compression with  
Inferred Pixel Values  
Our ref.: PA1732US

Dear Mr. Hong:

As you may know, Title 37 of the U.S. Code of Federal Regulations (37 CFR § 1.56) imposes upon each inventor named in an application and each attorney, agent, assignee or other person who is substantively involved in the preparation or prosecution of the application an affirmative duty to disclose all information which is material to the examination of the patent application. Within the scope of this duty is an obligation to submit all "prior art" of which the applicant and his attorney are aware. We regularly satisfy that obligation by preparing and sending an information disclosure statement to the Patent and Trademark Office a few months after filing an application.

Prior art includes publications, both U.S. and foreign, patented or not, which describe a device similar to that disclosed and claimed in the patent application, or which show something sharing a significant common concept or feature with the invention for which a patent is sought. Any such publication which predates the date of invention or was published more than a year prior to the filing date of the application must be disclosed. Any doubts on this matter should be resolved in favor of disclosure.

Also included in "prior art" is any public use, disclosure or offering for sale of the invention or any relevant device in this country by the inventor or others, more than one year prior to the filing date of the application, or any knowledge or use of the invention by others in this country prior to your date of invention. This would include, for example, any prior patented or unpatented devices of which you are aware. Photographs or brochures are usually the best to show this prior art, if available. Again, all doubts should be resolved in favor of disclosure.

Failure to make a full disclosure, as described above, may seriously jeopardize the ability to enforce, or invalidate any patent that might issue, and willful failure to

Zhou Hong  
July 3, 2002  
Page Two

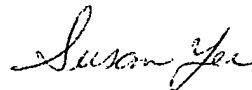
provide pertinent information may be considered a criminal offense and can result in an action for damages against the patent owner.

Accordingly, we request that you submit to us copies of any prior art publications, and information regarding any other "prior art" of which you are aware and to which you might have access. Please try to have the above-mentioned materials sent to us as soon as possible, as we would like to submit the information disclosure statement by August 17, 2002.

Please note also that the duty of disclosure is an ongoing duty throughout the pendency of the application. Accordingly, any prior art of which you become aware should be promptly forwarded to us.

If you have any questions, please feel free to call me. If we do not hear from you, we will assume you know of no prior art.

Sincerely,



Susan Yee

SLY:spr

*EXHIBIT D*

CARR & FERRELL LLP  
ATTORNEYS AT LAW

WRITER'S DIRECT DIAL NUMBER

(650) 812-3423

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SEP 17 2002

OFFICE OF PETITIONS

March 19, 2002

VIA CERTIFIED MAIL

Zhou Hong  
311 Checkers Drive, #208  
San Jose, CA 95133

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SEP 17 2002

OFFICE OF PETITIONS

Re: U.S. Patent Application No. 10/052,613  
Filed: January 7, 2002  
Title: Fixed-Rate Block Based Image Compression with Inferred Pixel  
Vaues  
Our ref.: PA1732US

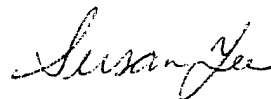
Dear Zhou:

Enclosed for your signature please find a Declaration and Power of Attorney and Assignment for the above-referenced patent application. For your reference, we have also enclosed a copy of the above-referenced patent application as filed. Your contribution to this application was for S3, Inc. S3 Graphics Co., Ltd. acquired certain intellectual property from S3, Inc., including this patent application.

Please sign, date and complete the information where indicated. By executing the assignment you will be transferring ownership of the above-identified patent applications to S3 Graphics Co., Ltd. After execution of all the enclosed forms, please return the originals to me in the enclosed self-addressed envelope so that I can file them with the U.S. Patent & Trademark Office.

If you have any questions, please do not hesitate to contact me.

Sincerely,



Susan Yee

Enclosures

{00058126v1}



**DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled "**Fixed Rate Block-Based Image Compression with Inferred Pixel Values**," the specification of which (check one):

☐ is attached hereto.

☒ was filed on January 17, 2002

as U.S. Application No. 10/052,613

or PCT International Application No. \_\_\_\_\_

and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, or PCT International application, having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)Priority Claimed

_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
_____ (Number)	_____ (Country)	_____ (Day/Month/Year filed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.

\_\_\_\_\_  
(Application Number)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Application Number)

\_\_\_\_\_  
(Filing Date)

I hereby claim the benefit under Title 35, United States Code §120 of any United States application(s), or §365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

09/351,930

(Application Number)

July 12, 1999

(Filing Date)

pending

(Status -- patented, pending, abandoned)

08/942,860

(Application Number)

October 2, 1997

(Filing Date)

patented

(Status -- patented, pending, abandoned)

**POWER OF ATTORNEY:** I hereby appoint the attorney(s) and/or agent(s) associated with the customer number **22830** to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

**SEND ALL CORRESPONDENCE TO:**

**Susan Yee**  
**CARR & FERRELL**  
2225 East Bayshore Road, Suite 200  
Palo Alto, CA 94303  
TEL: (650) 812-3400  
FAX: (650) 812-3444

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor: **Zhou Hong**

Inventor's signature \_\_\_\_\_ Dated: \_\_\_\_\_

Residence San Jose, CA Citizenship \_\_\_\_\_

Post Office Address \_\_\_\_\_

Full name of second joint inventor, if any: **Konstantine I. Iourcha**

Second Inventor's signature \_\_\_\_\_ Dated: \_\_\_\_\_

Residence \_\_\_\_\_ Citizenship Russia

Post Office Address \_\_\_\_\_

Full name of third joint inventor, if any: **Krishna S. Nayak**

Third Inventor's signature \_\_\_\_\_ Dated: \_\_\_\_\_

Residence \_\_\_\_\_ Citizenship \_\_\_\_\_

Post Office Address \_\_\_\_\_

For: ☒ U.S. and/or ☒ Foreign Rights  
For: ☒ U.S. Application or  
[ ] U.S. Provisional Application  
For: [ ] U.S. Patent  
For: [ ] PCT Application  
By: ☒ Inventor(s) or [ ] Present Owner

## ASSIGNMENT OF INVENTION

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged,

## ASSIGNORS:

Zhou Hong

FIRST NAMED INVENTOR

Address

Konstantine I. Iourcha

SECOND NAMED INVENTOR

Address

Krishna S. Nayak

THIRD NAMED INVENTOR

~~342~~ 342 Carolina Ln

Address

Palo Alto, CA 94306

hereby sell, assign and transfer to

## ASSIGNEE:

S3 Graphics Co., Ltd.

ASSIGNEE

Charles Adams, Ritchie & Duckworth, Zephyr House

Address

Mary Street, P.O. BOX 709,Grand Cayman, British West Indies

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

☒ [ X ] the entire right, title and interest  
☐ [ ] an undivided \_\_\_\_\_ percent ( \_\_\_\_\_ %) interest  
for the United States and its territorial possessions

☒ [ X ] and in all foreign countries, including all rights to claim priority,  
in and to any and all improvements which are disclosed in the invention entitled:

Fixed Rate Block-Based Image Compression with Inferred Pixel Values

Name of inventor(s) Zhou Hong, Konstantine I. Iourcha and Krishna S. Nayak

and which is found in (37 C.F.R. § 3.21)

- (a) ☐ [ ] U.S. patent application executed on even date herewith  
(b) ☐ [ ] U.S. patent application executed on \_\_\_\_\_  
(c) ☐ [ ] U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ [ ] Express mail label no.: \_\_\_\_\_  
Mailed: \_\_\_\_\_

(d) ☒ [ X ] U.S. Application No. 10/052,613  
filed on January 17, 2002 | \_\_\_\_\_

(e) ☐ [ ] International application no. PCT/ \_\_\_\_\_ / \_\_\_\_\_

(f) ☐ [ ] U.S. patent no. \_\_\_\_\_ issued \_\_\_\_\_

☐ [ ] A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(g) ☐ [ ] and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.


Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Zhou Hong

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Konstantine I. Iourcha

Date: 4/5/02

  
\_\_\_\_\_  
Signature of Krishna S. Nayak

For: ☒ U.S. and/or ☒ Foreign Rights  
For: ☒ U.S. Application or  
[ ] U.S. Provisional Application  
For: [ ] U.S. Patent  
For: [ ] PCT Application  
By: ☒ Inventor(s) or [ ] Present Owner

**ASSIGNMENT OF INVENTION**

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged,

**ASSIGNORS:**Zhou Hong

FIRST NAMED INVENTOR

\_\_\_\_\_  
AddressKonstantine I. Iourcha

SECOND NAMED INVENTOR

\_\_\_\_\_  
AddressKrishna S. Nayak

THIRD NAMED INVENTOR

\_\_\_\_\_  
Address

hereby sell, assign and transfer to

**ASSIGNEE:**S3 Graphics Co., Ltd.

ASSIGNEE

Charles Adams, Ritchie & Duckworth, Zephyr House

Address

Mary Street, P.O. BOX 709,Grand Cayman, British West Indies

and the successors, assigns and legal representatives of the ASSIGNEE

*(complete one of the following)*

☒ the entire right, title and interest  
☐ an undivided \_\_\_\_\_ percent ( \_\_\_\_\_ %) interest  
for the United States and its territorial possessions

☒ and in all foreign countries, including all rights to claim priority,  
in and to any and all improvements which are disclosed in the invention entitled:  
Fixed Rate Block-Based Image Compression with Inferred Pixel Values

Name of inventor(s) Zhou Hong, Konstantine I. Iourcha and Krishna S. Nayak

and which is found in (37 C.F.R. § 3.21)

- (a) ☐ U.S. patent application executed on even date herewith  
(b) ☐ U.S. patent application executed on \_\_\_\_\_  
(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ Express mail label no.: \_\_\_\_\_  
Mailed: \_\_\_\_\_

(d) ☒ U.S. Application No. 10/052,613  
filed on January 17, 2002 ]

(e) ☐ International application no. PCT/ \_\_\_\_\_ / \_\_\_\_\_

(f) ☐ U.S. patent no. \_\_\_\_\_ issued \_\_\_\_\_

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.



ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Zhou Hong

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Konstantine I. Iourcha

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Krishna S. Nayak